CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP.

10th April 2015

Dear Sir,

Sub: Construction of cross Drains (CDS) in ward No.07 Byatarayanapura.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of cross Drains (CDS) in ward No.07 Byatarayanapura
Name of Agency	Sri. Gnanendra Reddy
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Drain)	13/03/2015	10/04/2015	28	8.08	495	**22.00**	**21.78**
2					8.06	485	**21.56**	
3					8.09	490	**21.78**	

Note:
1. The results relate only to the items tested.
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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

AE-7

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

The reports are accepted.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

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T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP.

2nd March 2015

Dear Sir,

Sub: Testing of Materials.

As requested, the required tests were carried out for the materials for the samples supplied by you, for the work of **'Construction of cross Drains (CDS) in ward No.07 Byatarayanapura.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

AE-7

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of cross Drains (CDS) in ward No.07 Byatarayanapura
Name of the Agency	Sri. Gnanendra Reddy
Date of Testing	02/03/2015

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	63	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	498	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

The Reports are accepted.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of cross Drains (CDS) in ward No.07 Byatarayanapura
Name of the Agency	Sri. Gnanendra Reddy
Date of Testing	02/03/2015
Specific Gravity	**2.56**

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	**100**	100	100	100	100	II
	4.75	**98.2**	90-100	90-100	90-100	95-100	
	2.36	**86.3**	60-95	75-100	85-100	95-100	
	1.18	**73.8**	30-70	55-90	75-100	90-100	
	0.6	**45.2**	15-34	35-59	60-79	80-100	
	0.3	**22.3**	5-20	8-30	12-40	15-50	
	0.15	**5.6**	0-10	0-10	0-10	0-15	

AE-1

Note:

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The reports are accepted.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Lab Incharge
Civil Tech labs

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of cross Drains (CDS) in ward No.07 Byatarayanapura
Name of the Agency	Sri. Gnanendra Reddy
Date of Testing	02/03/2015
Specific Gravity	**2.67**
Water Absorption in %	**0.28**

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**97.3**	95-100	
20	**55.6**	30-70	
10	**21.3**	10-35	
4.75	**3.2**	0-5	

Note:

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

The reports are accepted.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of cross Drains (CDS) in ward No.07 Byatarayanapura
Name of the Agency	Sri. Gnanendra Reddy
Date of Testing	02/03/2015
Specific Gravity	**2.62**
Water Absorption in %	**0.31**

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**98.1**	95-100	
10	**41.9**	25-55	
4.75	**7.3**	0-10	

AE-7

Note:

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The reports are accepted.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Lab Incharge
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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Construction of cross Drains (CDS) in ward No.07 Byatarayanapura
Name of the Agency	Sri. Gnanendra Reddy
Date of Testing	02/03/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.619	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.6	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	426	415	Satisfactory
6	U T S (N/Sq.mm)	533	485	Satisfactory

AE-7

Note:

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

The reports are accepted.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.